



Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 078853-0302		SERIAL NO. 10/029372		
 <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)				APPLICANT Roger A. Sabbadini				
				FILING DATE 12/21/2001		GROUP ART UNIT 1654		
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE	
CC	A1	6,210,976	04/03/2001	Sabbadini	436	518		
CC	A2	5,929,039	07/27/1999	Woodcock, et al.	514	37		
CC	A3	5,677,288	10/14/1997	Marangos	514	39		
CC	A4	20010041688	11/15/2001	Waeber, et al.	556	404		
CC	A5	4,150,949	04/24/1979	Smith	23	230		
CC	A6	5,369,030	11/29/1994	Hannun, et al.	435	240		
CC	A7	5,631,394	05/20/1997	Wei, et al.	556	404		
<b>FOREIGN PATENT DOCUMENTS</b>								
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							YES	NO
CC	A33	WO 98/57179	10/12/2000	PCT			X	
CC	A34	WO 01/80903	11/01/2001	PCT			X	
CC	A35	WO 99/12890	03/18/1999	PCT				X
CC	A36	WO 99/41266	08/19/1999	PCT			X	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
CC	A69	Abe, et al., "Glycosphingolipid depletion in Fabry disease lymphoblasts with potent inhibitors of glucosylceramide synthase," <i>Kidney International</i> , 57:446-454 (2000)						
CC	A70	Abe, et al., "Structural and stereochemical studies of potent inhibitors and glucosylceramide synthase and tumor cell growth," <i>Journal of Lipid Research</i> , 36:611-621 (1995)						
CC	A71	Abe, et al., "Use of Sulfobutyl Ether $\beta$ -Cyclodextrin as a Vehicle for D-threo-1-Phenyl-2-decanoylamino-3-morpholinopropanol-Related Glucosylceramide Synthase Inhibitors," <i>Analytical Biochemistry</i> , 287:344-347 (2000)						
CC	A72	An, et al., "Characterization of a Novel Subtype of Human G Protein-coupled Receptor for Lysophosphatidic Acid," <i>J. Biol. Chem.</i> , 273:7906-7910 (1998)						
CC	A73	An, et al., "Identification of cDNAs encoding two G protein-coupled receptors for lysosphingolipids," <i>FEBS Letts.</i> , 417:279-282 (1997)						
EXAMINER 				DATE CONSIDERED 2/03				
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.								

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 078853-0302	SERIAL NO. 10/029372 APPL_NO02
<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		APPLICANT Roger A. Sabbadini	
		FILING DATE 12/21/2001	GROUP ART UNIT 1654 USPTO_ART_UNIT02

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
LL	A8	5,677,337	10/14/1997	Wei, et al.	514	546	
LL	A9	6,323,201	11/27/2001	Carson, et al.	514	234	
LL	A10	4,937,232	06/26/1990	Bell, et al.	514	26	
LL	A11	4,816,450	03/28/1989	Bell, et al.	514	25	
LL	A12	5,331,014	07/19/1994	Kimura, et al.	514	642	
LL	A13	5,137,919	08/11/1992	Igarashi, et al.	514	642	
LL	A14	5,151,360	09/29/1992	Handa, et al.	435	240.2	
LL	A15	6,187,562	02/13/2001	Duckworth, et al.	435	69.1	
LL	A16	5,851,782	12/22/1998	Hannun, et al.	514	360	
LL	A17	5,079,263	01/07/1992	Zeeck, et al.	514	616	
LL	A18	5,444,087	08/22/1995	Patel, et al.	514	475	
LL	A19	6,284,798	09/04/2001	Amtmann, et al.	514	632	
LL	A20	6,306,911	10/23/2001	Wachter, et al.	546	193	
LL	A21	6,051,598	04/18/2000	Shayman, et al.	514	428	
LL	A22	5,919,687	07/06/1999	Chatterjee	435	199	
LL	A23	5,663,404	09/02/1997	Igarashi, et al.	558	169	
LL	A24	5,260,288	11/09/1993	Igarashi, et al.	514	114	
LL	A25	5,391,800	02/21/1995	Igarashi, et al.	558	145	
LL	A26	5,430,160	04/04/1995	Boumendjel, et al.	549	510	
LL	A27	5,248,824	09/28/1993	Igarashi, et al.	564	292	
LL	A28	5,912,144	06/15/1999	Au-Young, et al.	435	69.1	
LL	A29	6,130,067	10/10/2000	Tsui	435	69.1	
LL	A30	6,057,126	05/02/2000	Munroe, et al.	435	69.1	
LL	A31	5,585,476	12/17/1996	MacLennan, et al.	536	23.5	
LL	A32	6,140,060	10/31/2000	Chun, et al.	435	7.1	

Examiner Louise Lee

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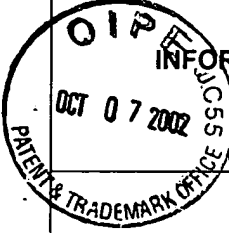
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<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		APPLICANT Roger A. Sabbadini	
		FILING DATE 12/21/2001	GROUP ART UNIT <i>1654</i> USPTO_ART_UNIT03

## FOREIGN PATENT DOCUMENTS

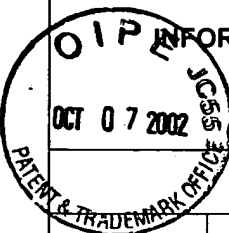
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	A38	WO 00/21919	04/20/2000	PCT		X	
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	A41	WO 00/58448	10/05/2000	PCT			X
	A42	WO 00/58491	10/05/2000	PCT			X
	A43	WO 00/59517	10/12/2000	PCT		X	
	A44	WO 00/70028	11/23/2000	PCT		X	
	A45	WO 00/72833 A2	12/07/2000	PCT			X
	A46	WO 01/04108	01/18/2001	PCT		X	
	A47	WO 01/04139	01/18/2001	PCT		X	
	A48	WO 01/07418	02/01/2001	PCT		X	
	A49	WO 01/31029	05/03/2001	PCT		X	
	A50	WO 01/38295	05/31/2001	PCT			X
	A51	WO 01/55410	08/02/2001	PCT		X	
	A52	WO 01/57057	08/09/2001	PCT		X	
	A53	WO 01/60990	08/23/2001	PCT		X	
	A54	WO 01/72701	10/04/2001	PCT		X	
	A55	WO 01/85953	11/15/2001	PCT		X	
	A56	WO 97/44019	11/27/1997	PCT		X	
	A57	WO 98/03529	01/29/1998	PCT			X
	A58	WO 98/28445	07/02/1998	PCT		X	
	A59	WO 98/40349	09/16/1998	PCT			X
	A60	WO 99/07855	08/11/1998	PCT			X
	A61	WO 99/12890	03/18/1999	PCT			X
	A62	WO 99/16888	04/08/1999	PCT		X	
	A63	WO 99/33972	07/08/1999	PCT		X	
	A64	WO 99/38983	08/05/1999	PCT		X	
<i>LL</i>	A65	WO 99/41265	08/19/1999	PCT			X

Examiner: *Louise Lee*Date Considered: *2/03*

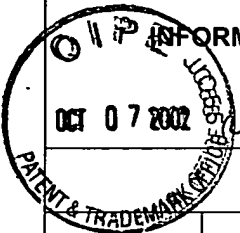
USPTO ART UNIT03

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 <p><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p>				APPLICANT Roger A. Sabbadini			
				FILING DATE 12/21/2001		GROUP ART UNIT <u>1654</u> USPTO_ART_UNIT04	
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
CC	A74	An, et al., "Sphingosine 1-phosphate-induced cell proliferation, survival, and related signaling events mediated by G protein-coupled receptors Edg3 and Edg5," <i>J. Biol. Chem.</i> , <u>275</u> :288-296 (2000)					
CC	A75	Ancellin, et al., "Extracellular export of sphingosine kinase-1 enzyme: Sphingosine 1 phosphate generation and the induction of angiogenic vascular maturation," <i>JBC Papers in Press</i> , Published 12/10/01 (manuscript M102841200).					
	A76	Andrieu-Abadie, et al., "L-carnitine prevents doxorubicin-induced apoptosis of cardiac myocytes: role of inhibition of ceramide generation," <i>FASEB J.</i> , <u>13</u> :1501-1510 (1999)					
	A77	Arenz, et al., "Manumycin A and Its Analogues Are Irreversible Inhibitors of Neutral Sphingomyelinase," <i>ChemiBiochem.</i> , <u>2</u> :141-143 (2001)					
	A78	Arenz, et al., "Synthese des ersten selektiven irreveriblen Inhibitors der neutralen Sphingomyelinase," <i>Angew Chem.</i> , <u>112</u> :1498-1500 (2000) (GERMAN)					
	A79	Arenz, et al., "Synthesis and Biochemical Investigation of Scyphostatin Analogues as Inhibitors of Neutral Sphingomyelinase," <i>Bioorganic &amp; Medicinal Chemistry</i> , <u>9</u> :2901-2904 (2001)					
	A80	Arenz, et al., "Synthesis of the First Selective Irreversible Inhibitor of Neutral Sphingomyelinase," <i>Eur. J. Org. Chem.</i> , 137-140 (2001)					
	A81	Ariga, et al., "Role of Sphingolipid-mediated cell death in neurodegenerative diseases," <i>Journal of Lipid Research</i> , <u>39</u> :1-16 (1998)					
	A82	Bajjalieh, et al., "Ceramide Kinase," <i>Methods in Enzymology</i> , <u>311</u> :207-215 (1999)					
	A83	Intentionally Left Blank					
	A84	Intentionally Left Blank					
	A85	Bawab, et al., "Molecular Cloning and Characterization of a Human Mitochondrial Ceramidase," <i>J. Biol. Chem.</i> , <u>275</u> :21508-21513 (2000)					
	A86	Bernardo, et al., "Purification and Characterization of a Magnesium-dependent Neutral Sphingomyelinase from Bovine Brain," <i>J. Biol. Chem.</i> , <u>275</u> :7641-7647 (2000)					
CC	A87	Betto, et al., "Sphingosylphosphocholine modulates the ryanodine receptor/calcium-release channel of cardiac sarcoplasmic reticulum membranes," <i>Biochem. J.</i> , <u>322</u> :327-333 (1997)					
CC	A88	Bielawska, et al., "(1S, 2R)-D-erthro-2-(N-Myristoylamino)-1-phenyl-1-propanol as an Inhibitor of Ceramidase," <i>J. Biol. Chem.</i> , <u>271</u> :12646-12654 (1996)					

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				FILING DATE 12/21/2001		GROUP ART UNIT <u>1654</u> USPTO_ART_UNIT04	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<u>ff</u>	A89	Bielawska, et al., "Ceramide Is Involved in Triggering of Cardiomyocyte Apoptosis Induced by Ischemia and Reperfusion," <i>Am. J. Pathol.</i> , <u>151</u> (5):1257-1263 (1997)					
	A90	Boudker, et al., "Detection and Characterization of Ceramide-1-phosphate Phosphatase Activity in Rat Liver Plasma Membrane," <i>J. Biol. Chem.</i> , <u>268</u> :22150-22155 (1993)					
	A91	Brady, et al., "The metabolism of sphingomyelin. II. Evidence of an enzymatic deficiency in Niemann-Pick disease," <i>Proc. Natl. Acad. Sci. USA</i> , <u>55</u> (2):366-369 (1966)					
	A92	Brindley, et al., "Analysis of Ceramide 1-phosphate and Sphingosine-1-phosphate Phosphatase Activities," <i>Methods in Enzymology</i> , <u>311</u> :233-244 (1999)					
	A93	Brownlee, C., "Intracellular signalling: sphingosine-1-phosphate branches out," <i>Current Biology</i> , <u>11</u> :R535-R538 (2001)					
	A94	Burton, et al., "Human antibodies from combinatorial libraries," <i>Adv. Immunol.</i> , <u>57</u> :191-280 (1994)					
	A95	Cain, et al., "Therapeutic Strategies to Reduce TNF- $\alpha$ Mediated Cardiac Contractile Depression Following Ischemia and Reperfusion," <i>J. Mol. Cell. Cardiol.</i> , <u>31</u> :931-947 (1999)					
	A96	Caligan, et al., "A High-Performance Liquid Chromatographic Method to Measure Sphingosine 1-Phosphate and Related Compounds from Sphingosine Kinase Assays and Other Biological Samples," <i>Analytical Biochemistry</i> , <u>281</u> :36-44 (2000)					
	A97	Chan, et al., "Ceramide Path in Human Lung Cell Death," <i>Am. J. Respir. Cell Mol. Biol.</i> , <u>22</u> :460-468 (2000)					
	A98	Chan, et al., "Purification and Characterization of Neutral Sphingomyelinase from <i>Helicobacter pylori</i> ," <i>Biochemistry</i> , <u>39</u> :4838-4845 (2000)					
	A99	Chatterjee, "Neutral Sphingomyelinase," <i>Advances in Lipid Research</i> , <u>26</u> :25-49 (1993)					
	A100	Chatterjee, "Neutral Sphingomyelinase: past, present, and future," <i>Chemistry and Physics of Lipids</i> , <u>102</u> :79-96 (1999)					
	A101	Chatterjee, et al., "Molecular Cloning, Characterization, and Expression of a Novel Human Neutral Sphingomyelinase," <i>J. Biol. Chem.</i> , <u>274</u> :37407-37412 (1999)					
<u>ff</u>	A102	Chau, et al., "Synthesis of Simple Aryl Neutral Sphingomyelinase Inhibitors," <i>Abstr. Pap. - Am. Chem. Soc.</i> , (2001)					
<u>ff</u>	A103	Chun, "Lysophospholipid receptors: implications for neural signaling," <i>Crit. Rev. Neuro.</i> , <u>13</u> (2):151-168 (1999)					

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
LL	A104	Chun, et al., "A Growing Family of Receptor Genes for Lysophosphatidic Acid (LPA) and other Lysophospholipids (LPs)," <i>Cell Biochem. &amp; Biophys.</i> , <u>30</u> (2):213-242 (1999)					
LL	A105	Cordis, et al., "HPTLC analysis of sphingomyelin, ceramide and sphingosine in ischemic/reperfused rat heart," <i>J. Pharm. And Biomed. Analysis</i> , <u>16</u> :1189-1193 (1998)					
LL	A106	Cuvillier, et al., "Suppression of ceramide-mediated programmed cell death by sphingosine-1-phosphate," <i>Nature</i> , <u>381</u> :800-803 (1996)					
LL	A107	Dickson, et al., "Serine Palmitoyltransferase," <i>Methods in Enzymology</i> , <u>311</u> :1-9 (1999)					
LL	A108	Edsall, et al., <i>Biochem.</i> , "N,N-Dimethylsphingosine is a potent competitive inhibitor of sphingosine kinase but not of protein kinase C: modulation of cellular levels of sphingosine 1-phosphate and ceramide," <u>37</u> :12892-12898 (1998)					
LL	A109	Edson, et al., "The Aminoglycosides," <i>Mayo Clin. Proc.</i> , <u>74</u> :519-528 (1999)					
LL	A110	Eichler, et al., "Peptide, peptidomimetic, and organic synthetic combinatorial libraries," <i>Med. Res. Rev.</i> , <u>15</u> :481-496 (1995)					
LL	A111	Fensome, et al., "A Neutral Magnesium-dependent Sphingomyelinase Isoform Associated with Intracellular Membranes and Reversibly Inhibited by Reactive Oxygen Species," <i>J. Biol. Chem.</i> , <u>275</u> :1128-1136 (2000)					
LL	A112	Fujii, et al., "Mg <sup>2+</sup> binding and catalytic function of sphingomyelinase from <i>Bacillus cereus</i> ," <i>J. Biochem (Tokyo)</i> , <u>124</u> :1178-1187 (1998)					
LL	A113	Fukushima, et al, "A single receptor encoded by <i>vzg-1/lp<sub>4</sub>/edg-2</i> couples to G proteins and mediates multiple cellular responses to lysophosphatidic acid," <i>Proc. Natl. Acad. Sci.</i> , <u>95</u> :6151-6156 (1998)					
LL	A114	Furneisen, et al., "Enzymological properties of the LPP1-encoded lipid phosphatase from <i>Saccharomyces cerevisiae</i> " <i>Biochim. Biophys. Acta.</i> , <u>1484</u> :71-82 (2000)					
LL	A115	Garcia-Ruiz, "Human placenta sphingomyelinase, an exogenous acidic pH-optimum sphingomyelinase, induces oxidative stress, glutathione depletion, and apoptosis in rat hepatocytes," <i>Hepatology</i> , <u>32</u> :56-65 (2000)					
LL	A116	Gates, et al., "Serum amyloid p component: its role in platelet activation stimulated by sphingomyelinase d purified from the venom of the brown recluse spider ( <i>Loxosceles reclusa</i> )," <i>Toxicon</i> , <u>28</u> :1303-1315 (1990)					
LL	A117	Gatt, et al., "Niemann Pick disease: presence of the magnesium-dependent sphingomyelinase in brain of the infantile form of the disease," <i>J. Neurochem.</i> , <u>31</u> (2):547-550 (1978)					
LL	A118	Gavrilenko, et al., "Nucleotide sequence of phospholipase C and sphingomyelinase genes from <i>Bacillus cereus</i> BKM-B164," <i>Bioorg. Khim.</i> , <u>19</u> :133-138 (1993)					

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<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		APPLICANT Roger A. Sabbadini	
		FILING DATE 12/21/2001	GROUP ART UNIT <u>1694</u> USPTO_ART_UNIT04
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
cc	A119	Geeraert, et al., "Conversion of dihydroceramide into ceramide: involvement of a desaturase," <i>Biochem. J.</i> , <u>327</u> :125-132 (1997)	
	A120	Ghosh, et al., "Effects of gentamicin on sphingomyelinase activity in cultured human renal proximal tubular cells," <i>J. Biol. Chem.</i> , <u>262</u> :12550-12556 (1987)	
	A121	Ghosh, et al., "Identification, partial purification, and localization of a neutral sphingomyelinase in rabbit skeletal muscle: Neutral sphingomyelinase in skeletal muscle," <i>Mol. Cellular Biochem.</i> , <u>189</u> :161-168 (1998)	
	A122	Gilmore, et al., "A <i>Bacillus cereus</i> cytolytic determinant, cereolysin AB, which comprises the phospholipase C and sphingomyelinase genes: a nucleotide sequence and genetic linkage," <i>J. Bacteriol.</i> , <u>171</u> (2):744-753 (1989)	
	A123	Glickman, et al., "Molecular Cloning, Tissue-Specific Expression, and Chromosomal Localization of a Novel Nerve Growth Factor-Related G-Protein-Coupled Receptor, nrg-1," <i>Mol. Cel. Neurosci.</i> , <u>14</u> :141-152 (1999)	
	A124	Goetzl, et al., "Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury, 4. 38: A Subfamily of G Protein-Coupled Cellular Receptors for Lysophospholipids and Lysosphingolipids, Introduction: The Biochemistry and Biology of Lipid Phosphoric Acids," <i>Adv. Exp. Med. Biol.</i> , <u>469</u> :259-264 (1999)	
	A125	Gonda, et al., "The novel sphingosine 1-phosphate receptor AGR16 is coupled via pertussis toxin-sensitive and -insensitive G-proteins to multiple signalling pathways," <i>Biochem. J.</i> , <u>337</u> :67-75 (1999)	
	A126	Gonzalez-Zorn, et al., "The smcL gene of <i>Listeria ivanovii</i> encodes a sphingomyelinase C that mediates bacterial escape from the phagocytic vacuole," <i>Mol. Microbiol.</i> , <u>33</u> (3):510-523 (1999)	
	A127	Graler, et al., "EDG6, a Novel G-Protein-Coupled Receptor Related to Receptors for Bioactive Lysophospholipids, Is Specifically Expressed in Lymphoid Tissue," <i>Genomics</i> , <u>53</u> :164-169 (1998)	
	A128	Gunther, "Myocardial contractility after infarction and carnitine palmitoyltransferase I inhibition in rats," <i>Eur. J. Pharma.</i> , <u>406</u> :123-126 (2000)	
	A129	Hakogi, et al., "Stereocontrolled synthesis of a sphingomyelin methylene analogue as a sphingomyelinase inhibitor," <i>Org. Lett.</i> , <u>2</u> :2627-2629 (2000)	
	A130	Hanada, et al., "Specificity of Inhibitors of Seine Palmitoyltransferase (SPT), a Key Enzyme in Sphingolipid Biosynthesis, in Intact Cells," <i>Biochemical Pharmacology</i> , <u>59</u> :1211-1216 (2000)	
cc	A131	Hannun, et al., "Ceramide in the eukaryotic stress response," <i>Cell Biology</i> , <u>10</u> :73-80 (2000)	
cc	A132	Hannun, et al., "The Sphingomyelin Cycle: A Prototypic Sphingolipid Signaling Pathway," <i>Adv. Lipid Res.</i> , <u>25</u> :27-41 (1993)	
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(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
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ATTY. DOCKET NO.

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SERIAL NO.

APPL\_NO04

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APPLICANT

Roger A. Sabbadini

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GROUP ART UNIT

USPTO\_ART\_UNIT04

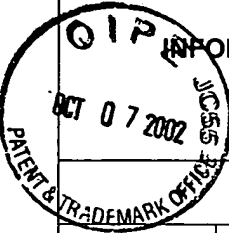
1654

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ll	A134	Hannun, et al., "Functions of Sphingolipids and Sphingolipid Breakdown Products in Cellular Regulation," <i>Science</i> , <u>243</u> :500-507 (1989)
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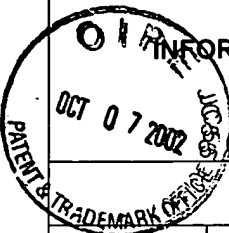
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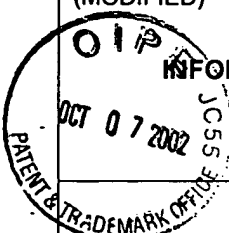
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## INFORMATION DISCLOSURE CITATION

APPLICANT

Roger A. Sabbadini

FILING DATE

12/21/2001

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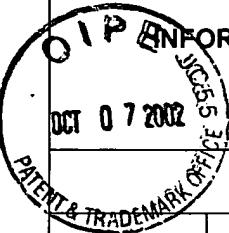
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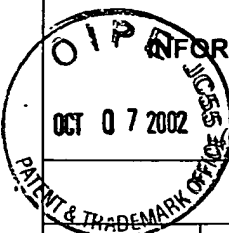
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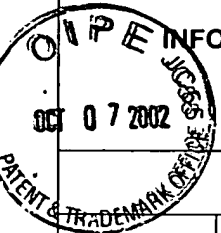
Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 078853-0302		SERIAL NO. <u>10/029372</u> APPL_NO04	
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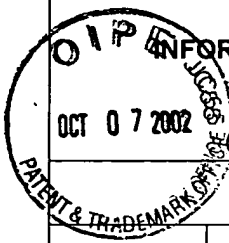
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